Maryland Historical Trust

Maryland Inventory of Historic Properties number: 15 Name: 15 01 55	3A-2858 FORD (CND)
The bridge referenced herein was inventoried by the Mar Historic Bridge Inventory, and SHA provided the Trust w The Trust accepted the Historic Bridge Inventory on Apri determination of eligibility.	with eligibility determinations in February 2001.
MARYLAND HISTO	ORICAL TRUST Eligibility Not Recommended
Criteria: A B C D Considerations:	
Comments:	
Reviewer, OPS:_Anne E. Bruder	Date:3 April 2001
Reviewer, NR Program: Peter E. Kurtze	Date:3 April 2001

MARYLAND INVENTORY OF HISTORIC BRIDGES HISTORIC BRIDGE INVENTORY MARYLAND STATE HIGHWAY ADMINISTRATION/MARYLAND HISTORICAL TRUST

SHA Bridge No. 3042	Bridge name MD 45 over Western	n Run
LOCATION: Street/Road name and number	er MD 45 (York Road)	
City/town Hunt Valley	VicinityX_	
County Baltimore		
This bridge projects over: Re	oad Railway Water X Land	
Ownership: State X	County Municipal Other	
National Register-lis	ignated historic district? YesN ted district National Register-determine istrict Other	
BRIDGE TYPE: Timber Bridge: Beam Bridge	Truss -Covered Trestle	Timber-And-Concrete
Stone Arch Bridge		
Metal Truss Bridge		
Movable Bridge: Swing Vertical Lift	Bascule Single Leaf Retractile	Bascule Multiple Leaf Pontoon
Metal Girder: Rolled Girder Plate Girder	_ Rolled Girder Concrete Encased Plate Girder Concrete Encased	
Metal Suspension		
Metal Arch		
Metal Cantilever		
Concrete X: Concrete Arch X C	oncrete Slab Concrete Beam Rigid F	rame
Other Type Name		

St 2858

DESCRIPTION:

Describe Setting

Bridge 3042 carries MD 45 (York Road) over Western Run in Baltimore County. MD 45 runs in a generally northsouth direction over the eastern flowing Western Run. The bridge is located in a suburban area that is heavily commercialized. The bridge carries 2 lanes of traffic in opposing direction and is located adjacent to the Masonic Home of Maryland. The bridge is located on a sharp vertical crest curve with poor sight distance. This was common in arch bridges, so that floodwaters could sweep around the structure instead of washing the bridge away.

Describe Superstructure and Substructure:

Bridge 3042 is a single span, filled spandrel concrete arch. The bridge replaced a covered bridge in approximately the same location in 1917. The arch is oriented on a 90-degree skew. When originally constructed, the bridge carried a 24foot clear roadway with two 7-foot lanes. Subsequently widened by 11 feet 6 inches in 1955, the bridge now has a 30foot roadway width. The length of the bridge is 94 feet, with a clear arch span of 90 feet at the springline. The rise of the arch from springline to crown is 13 feet 7 inches. The reinforced concrete wingwalls have elaborate inscribed paneling on the exterior faces that resembles the appearance of an open spandrel arch. The wingwalls terminate at the end of the arch proper, with wide paneled pilasters. The original arch had 1 foot 6 inch wide vertical concrete parapets with caps and short curbs mounted on a 2 foot 2 inch wide base. The widened side parapet matches the original and both have a rather elaborate paneled interior face. The arch is earthen filled and is topped with a bituminous concrete road section. There is an interior concrete slab over the middle portion of the arch.

According to a 1005 inspection report, the bridge is in fair condition with a sufficiency rating of 62.7

According to a 1993 hispection report, the bridge is in rain condition with a sufficiency rating of 62.7.
Discuss major Alterations:
The bridge was widened in 1955.
HISTORY:
WHEN was bridge built (actual date or date range) This date is: Actual Estimated Source of date: Plaque Design plans County bridge files/inspection form _X Other (specify)
WHY was bridge built? Relocation and geometric improvements to York Road and replacement of ninete

enth-century covered bridge.

WHO was the designer Unknown

WHO was the builder **State Roads Commission**

WHY was bridge altered? To widen the structure for a wider approach roadway.

Was bridge built as part of organized bridge-building campaign?

Yes, this bridge was built as part of the geometric improvements to York Road.

SURVEYOR/HISTORIAN ANALYSIS:

This bridge may have National Register significance for its association with:

A - Events X B- Person

C- Engineering/architectural character X

The bridge was determined eligible by the Interagency Review Committee in September 1996.

Was bridge constructed in response to significant events in Maryland or local history?

The improvement of Baltimore County roads and structure most likely resulted from several events that occurred at the start of the twentieth century. The original Good Roads movement was aimed toward improving the primary routes throughout the state, of which York Road can be classified, as well as connecting roads between counties. A later impact of this program included the widening, geometric improvements, regrading of highways, and the construction of new bridges to carry the rebuilt roadways. The rapid increase of motorized vehicles prompted the replacement of existing narrow and weak bridges with wider and stronger structures. The removal of the nineteenth-century timber structure at this location, and its replacement with a concrete arch, demonstrates this practice.

When the bridge was built and/or given a major alteration, did it have a significant impact on the growth & development of the area?

Yes, Bridge 3042 was built as part of the improvements to York Road. Although there had been an existing roadway connecting Baltimore with York, Pennsylvania since 1810, when the Yorktown turnpike was completed, the redesigned modern highway allowed for increased traffic loads and included the features of modern geometric design, allowing both greater speed and safety to the motorist. The associated increase in traffic after the highway was completed allowed for greater regional development, both within the state and in the commercial centers of eastern Pennsylvania. Subsequently, the widening of this structure also had a later impact on the region as York Road was improved to handle increased in traffic volume, vehicular loadings, and the overall increase in people relocating form Baltimore City and southern Pennsylvania to Baltimore County in the post-World War II period.

Is the bridge located in an area that may be eligible for historic designation?

No, this bridge is not located in an area that is eligible for historic designation.

Is the bridge a significant example of its type?

Yes, Bridge 3042 is a significant example of a widened, relatively undeteriorated single span concrete arch bridge built in 1917.

Does bridge retain integrity of important elements described in Context Addendum?

Yes, the bridge retains the integrity of its character defining elements; however, it was widened, causing the loss of one part of its original solid parapet. Although minor repairs were made to the bridge, the large majority of features of the bridge are original and have little deterioration, including the barrel, arch ring, spandrel walls, abutments, and wingwalls.

Is bridge a significant example of work of manufacturer, designer and/or engineer?

Yes, this bridge is a significant example of the structural design and construction work of the State Roads Commission in 1917 to eliminate deficient and dangerous geometric alignments of its highways to meet the demands of modern motorists, and create beautiful structures that could withstand the associated higher loads of modern motorized vehicles.

Should bridge be given further study before significance analysis is made?

No, the bridge should not be given further study.

BIBLIOGRAPHY:

County inspection/bridge files ___ SHA inspection/bridge files X Other (list):

SURVEYOR/SURVEY INFORMATION:

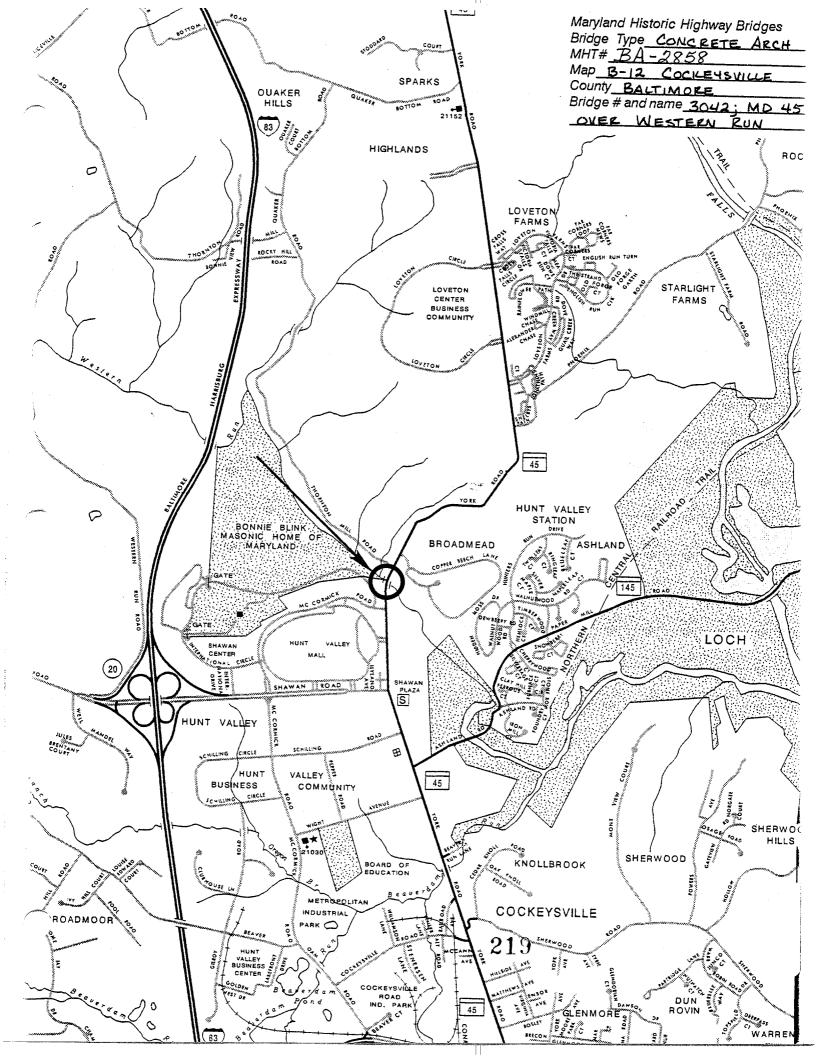
Date bridge recorded August 23, 1996

Name of surveyor James T. Aguirre

Organization/Address State Highway Administration, 707 North Calvert Street, Baltimore, MD

Phone number 410-545-8559

Edited by P.A.C. Spero & Company, December 1997





Inventory # BA - 2858

Name 3042-MD 45 OVER WESTERN RUN
County/State BALTIMORE COUNTY/MO
Name of Photographer DAVE DIEHL
Date
Location of Negative _SHA
Description WEST APPROACH LOOKING SOUTH

Number 25 of 344



Inventory # <u>BA-2858</u>

Name 3042 MD 45 OVER WESTERN RUN
County/State BALTIMORE COUNTY/MD
Name of Photographer PAVE DIEHL
Date 1 95
Location of Negative SHA
Description EAST ELEVATION LUDKING WEST
Number 24 of 34



Inventory # <u>BA - 2858</u>	
Name 3042- MO 45 OVER WESTERN RUN	
County/State BALTIMURE COUNTY/MO	
Name of Photographer DANE DIENL	
Date 195	
Location of Negative SHA	
Description WEST ELEVATION LUDKING	
SOUTHEAST	

Number 29 of 34



nventory # BA-2858
Name 3042-MO45 OVER WESTERN RUN
County/State BALTIM URE COUNTY/MD Name of Photographer DAVE DIEHL
Date 195
ocation of NegativeSHA
Description SOUTH APPRUACH LOOKING

Number 28 of 24